The present amendment is submitted in response to the Office Action dated

September 24, 2010, which set a three-month period for response, making this

response due by December 24, 2010.

Claims 17-20 and 22-32 are pending in the application.

In the Office Action, claims 17-20, 22 and 28-32 were rejected under 35

U.S.C. 112, second paragraph, as being indefinite, Claims 17, 22, 28 and 29 were

rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No.

5,005,777 to Fernandez in view of U.S. Patent No. 4,217,788 to Burr et al or U.S.

Patent No. 5,605,071 to Buchanan, Jr. Claims 18-20 were rejected under 35 U.S.C.

103(a) as being unpatentable over Fernandez in view of Burr or Buchanan and

further in view of U.S. Patent No. 4,546,933 to Kanada et al. Claims 30-32 were

rejected under 53 U.S.C. 103(a) as being unpatentable over Fernandez in view of

Burr or Buchanan and Kanada and further in view of U.S. Patent No. 4.652,781 to

Andrei-Alexandru et al.

In the present amendment, claims 17 and 22 have been amended to address

the rejections under Section 112, second paragraph.

Claim 17 has been further amended to distinguish over the art of record. As

disclosed in the specification, in the present invention, the carrier shaft 18 is non-

displaceable, and the spiral toothing 19 is fixedly disposed on the carrier shaft 18

and therefore likewise is non-displaceable. By means of common and implied

kinematics of the rotation of the individual gears of a spiral toothing with a rotating

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carrier shaft, the effect according to the present invention comes into effect: the first

thread of the toothing on the end of the spiral toothing, which is in contact with the

frictional component, works in the axial direction against the friction element,

although the toothing itself does not move.

The claims have been amended to reflect the above features.

As argued previously, the devices disclosed in the cited references are not

comparable. The Examiner maintains in the Office Action that the Fernandez

reference discloses in the abstract the function of the spiral toothing during a slow

feeding of the safety belt, in which the control of the motor takes place via the

longitudinal motion of the spiral toothing with the brush control 56, 60 connected

thereon. During feeding of the safety belt, the belt shaft is rotated first slowly in the

belt pull-out direction. When at the completion of the feeding process, no belt pull-

out occurs any longer, then the motor is changed in a rotation motion of the belt shaft

in the belt winding direction, in order to overcome eventual belt slackness. If in doing

so, too great of a feed force is exerted on the occupants, then the motor controls its

rotational direction again and rotates the belt shaft again in the belt pull-out/release

position, so that some belt strap is released. This belt adjustment is not performed only during the pulling out of the safety belt, but also during normal movements of

the restrained occupants during the trip.

In this respect, during pulling-out/withdrawal of the safety belt and during

normal movements, respectively, the rotational direction of the motor is changed. A

blocking of the rotation of the spiral toothing in one direction therefore is NOT

provided, because the spiral toothing always adjusts itself during correspondingly

slow rotation of the belt shaft.

The last four lines of the Fernandez abstract to which the Examiner refers in

the Office Action only relate to the event of a crash. This crash event is described

more specifically in column 11, lines 37-64 of Fernandez. In this case, the speed of

the belt strap withdrawal plays an important role. Thus, during a slow belt strap

the belt strap withdrawar plays an important role. Thus, during a slow belt strap

withdrawal, a displacement of the spiral toothing for control of the motor takes place,

and the toothing of the gear wheel 52 and the spiral toothing 54 are so designed,

that the further rotation of the belt shaft is blocked. Also in the event of a crash,

according to the last four lines of the abstract, a blocking of the rotation of the spiral

toothing in only one direction plays NO role.

As defined in amended claim 17, the rotation of the spiral toothing should be

unimpeded in one direction of rotation, while in the other direction of rotation, the

rotation of the spiral toothing is prevented by engagement of the first thread. This

aspect is NOT even mentioned by Fernandez. Either an immediate counter blocking

in BOTH directions occurs in the vent of a crash, or a rotation of the spiral toothing

with axial displacement in BOTH directions of the gear wheel 52 is permitted.

The displaceable shaft toothing in Fernandez makes impossible the claimed

function of the present invention, specifically, that with a reversal of the rotational

direction, a blocking of the rotational movement of the spiral toothing takes place. It

is clear that Fernandez not only fails to disclose the non-self-blocking feature, but

other features of the present invention as well.

Burr discloses on the one hand that a non-self-locking spiral toothing on a

carrier shaft is known in the state of the art. Burr, however, also discloses that in

such a case a brake must be provided in order to prevent a reverse rotation of the

shaft. Burr provides a separate friction brake 32 for this purpose.

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In comparing Burr with the present application, then, it is apparent that with

the present invention, the separate friction brake 32 of Burr is replaced by the

cooperation of the first gear of the spiral toothing with the friction-increasing

component, for example the spacer disk 25. One of skill in the art would not be led

to this feature of the present invention from the teachings of Burr, which teaches a

completely different structure and concept. While Burr poses a similar problem, he

resolves the problem with a completely different solution with the separate friction

brake.

Regarding the Buchanan reference, it is again submitted that this reference

has not been interpreted correctly. Buchanan shows an axial deviation of the

spiral/worm toothing on both sides, and in this manner, a self-locking is avoided.

Indeed, Buchanan shows only a gear assembly with a non-self-locking arrangement

of a worm gearing with a toothed shaft. With overload in the transmission path, the

worm gear arranged in bearings on both sides is axially displaced against a resilient

force and thereby avoids an overload.

This has nothing to do with the object of the present invention, however, which

is to increase friction such that with a reversal in the direction of rotation of the shaft,

further rotation of the spiral gearing is prevented. Such a reversal in the rotational

direction and the reasoning on which it would be based is not mentioned in

Buchanan.

The Applicants further submit that one of skill in the art would not be

motivated to combine Burr or Buchanan with Fernandez and that such a combination

still would not lead to the present invention.

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Based on the reasons set forth above, the Applicants respectfully submit that

claim 1 as amended is not rendered obvious by the cited references whether viewed

alone or in the proposed combination. It is respectfully submitted that since the prior

art does not suggest the desirability of the claimed invention, such art cannot

establish a prima facie case of obviousness as clearly set forth in MPEP section

2143.01.

The application in its amended state is believed to be in condition for

allowance. Action to this end is courteously solicited. However, should the

Examiner have any comments or suggestions, or wish to discuss the merits of the

application, the undersigned would very much welcome a telephone call in order to

expedite placement of the application into condition for allowance.

Respectfully submitted,

Robert beck

Robert W. Becker, Reg. 26,255

Attorney for Applicants

ROBERT W. BECKER & ASSOCIATES

707 State Hwy 333, Ste. B

Tijeras, New Mexico 87059-7507 Telefax:

Telephone: 505 286 3511 505 286 3524

RWB:rac

Hofli